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PAGE 01 STATE 139125 ORIGIN EUR-12

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SUBJECT: SCIENTIFIC PROJECT ON SVALBARD

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1. DEPARTMENT FULLY ENDORSES PRINCIPLE OF INCREASED SCIENTIFIC ACTIVITY ON SVALBARD BUT SHARES EMBASSY'S CAUTIONARY NOTE IN LIGHT OF EXTREME POLITICAL SENSITIVITY SURROUNDING ANYTHING PERTAINING TO SPITZBERGEN ARCHIPELAGO. IN THIS INSTANCE THE DIRECTOR OF THE NORWEGIAN POLAR INSTITUTE, DR. GJELSVIK, AND DR. GADE OF THE GEOPHYSICAL INSTITUTE, UNIVERSITY OF BERGEN, PARTILIMITED OFFICIAL USE

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PAGE 02 STATE 139125

CIPATED DURING THE PLANNING STAGES OF THE ONR PROJECT.
SUBJECT TO PRIOR CONSULTATIONS WITH APPROPRIATE NORWEGIAN
AUTHORITIES AND AN ON-THE-SCENE BRIEFING OF EMBASSY
POLITICAL STAFF BY PROJECT PARTICIPANTS, WE SEE NO PROBLEM
IN MOVING FORWARD WITH PROPOSED ONR RESEARCH PROJECT.

2. FOLLOWING BACKGROUND ON RESEARCH ASPECTS PROVIDED

FOR YOUR INFORMATION (PARTICIPANTS AND SUGGESTED ITINERARY SET FORTH REF B). ONR HAS PROVIDED FUNDS FOR PROJECT TO

THE COASTAL STUDIES INSTITUTE OF LOUISIANA STATE UNIVERSITY TO STUDY ARCTIC OCEAN COASTAL AND NEAR SHORE OCEANOGRAPHY INCLUDING POLAR OCEAN FJORDS. MUCH OF THE FIELD WORK, INCLUDING RESEARCH, RECONAISSANCE TRIPS AND LOGISTIC SUPPORT, WILL BE CONDUCTED JOINTLY WITH NORWEGIAN SCIENTIFIC PERSONNEL.

PROPOSAL IS 2 YEAR PROGRAM TO STUDY ARCTIC ROCKY COAST CIRCULATION PATTERNS AND MORPHOLOGY. FIRST YEAR"S EFFORT WILL BE PURSUED IN FOUR STAGES:

- (A) TO CARRY OUT A LITERATURE SURVEY OF FJORD CIRCULATION AND MORPHOLOGY. IN PARTICULAR, LITERATURE ON THE MIXING PROCESSES ACROSS THE PYENOCLINE THAT DRIVE THE CHARACTERISTIC TWO-LAYERED FJORD CIRCULATION WILL BE EMPHASIZED.
- (B) TO CARRY OUT A COASTAL RECONNAISSANCE OF SELECTED FJORD AREAS OF SVALBARD IN ORDER TO SELECT AN APPROPRIATE SITE FOR A 1978 FIELD PROGRAM.
- (C) TO COLLATE REMOTE SENSING IMAGERY OF SVALBARD AND ASSESS ITS USEFULNESS IN DETERMINING FJORD CIRCULATION PATTERNS.
- (D) THROUGH THE ABOVE TASKS, AND CONSULTATION WITH EUROPEAN UNIVERSITY AND INSTITUTE PERSONNEL WHO HAVE LIMITED OFFICIAL USE

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PAGE 03 STATE 139125

WORKED IN SVALBARD, TO DEFINE A FIELD PROGRAM FOR 1978-79 THAT HAS A REALISTIC PROBABILITY OF SUCCESS.

3. ADDITIONAL TECHNICAL BACKGROUND DATA AVAILABLE ON REQEUST IF YOU ARE INTERESTED. ONR WASHINGTON CONTACTS ARE L. JOHNSON OR R. MCGREGOR (692-4270). CHRISTOPHER

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